

AMENDMENTS TO THE CLAIMS

Claims 1-3 (Cancelled)

4. (Currently Amended) The optical transmitter according to claim ~~[[3]]~~ 10,
~~wherein~~ further including a temperature sensor mounted on the carrier for detecting a
temperature of the light emitting device ~~is mounted on the carrier~~.

5. (Currently Amended) The optical transmitter according to claim ~~[[1]]~~ 7,
wherein the light emitting device includes a first light emitting surface~~[[,]]~~ and a second light
emitting surface opposing to the first light emitting surface, and
the light receiving device receives light emitted from the second light emitting surface.

6. (Currently Amended) The optical transmitter according to claim 5, further comprising a can
case,
wherein the can case comprises a lens and a stem, the lens being optically coupled with the
first light emitting surface, ~~and a~~ the stem being configured to mount the second plate ~~thereon~~, and
wherein the light emitting device, the light receiving device, and the thermoelectric module
are housed in the can case.

7. (Previously Presented) An optical transmitter comprising:
a thermoelectric module having a first plate made of insulating material, a second
plate including a first region and a second region, the first plate being stacked on the first region of
the second plate, and a thermoelectric transducer which is interposed between the first plate and the
second plate and is in contact with the first plate and the first region of the second plate;

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a light emitting device supported by the first plate; and

a light receiving device mounted on the second region of the second plate and configured to receive portion of light emitted from the light emitting device,

wherein an optical axis connecting the light emitting device with the light receiving device is substantially perpendicular to the first plate.

8. (Previously Presented) The optical transmitter according to claim 7,
wherein the optical axis is substantially perpendicular to the second plate.

9. (Previously Presented) The optical transmitter according to claim 7,
wherein the first plate includes an opening, and portion of the light emitted from the light emitting device passes through the opening and enters the light receiving device mounted on the second region of the second plate.

10. (Previously Presented) The optical transmitter according to claim 7,
further comprising a carrier mounted on the first plate, the carrier including a supporting surface extending along a predetermined plane intersecting the first plate, wherein the light emitting device is mounted on the supporting surface.

11. (New) The optical transmitter according to claim 7,
wherein the second region of the second plate is evenly continuing to the first region of the second plate.